AMERICAN FOUNDRYMAN

Published by AMERICAN FOUNDRYMEN'S SOCIETY, INC. Golf & Wolf Roads Des Plaines, III.

INDEX

Volumes 25 and 26, January - December, 1954

Key to Abbreviations

br	-	book review
ed	-	editorial
facts	-	foundry facts data sheet
idea	******	now there's an idea
le	_	letter to editor
mfm	-	modern foundry methods
quiz	-	foundry quizmaster
rt	-	round table
st	-	shop talk
talk		talk of the industry

A			American Society for Testing Materials Elects		
	¥	Dogo	Officers at 57th Annual Meeting	Aug	8
	Issue	Page	Analysis, Ferrous (br)	Feb	3
After Three Years: Developments in Shell Molding:		100	Anybody Can Simplify Work:		
E. I. Valyi		138	M. E. Annich		4
Alloy Iron Production (st)		74	Apprentice Survey Planned		9
Aluminum in Iron and Steel (br)	Feb	96	Atmospheres, Protective (br)		13
American Poundaments Contatu			Australian Branch of IBF Holds Convention	Jan	3
American Foundrymen's Society		72	Automatic Stack Molding:		
Abandons Policy of "Contribution Financing"	Aug		Greg Minogue	May	14
Announce 1955 Apprentice Contest	Oct	65	Automation in Core Making:	_	
Announce Educational Program:			C. W. Hockman	Dec	3
Ashley B. Sinnett	Sept	68			
Annual Convention and Show Set for Cleveland,	**	40	6		
May 8-14	Mar	40	The state of the s		
Appoints Educational Director	Apr	92	Babbitt, Analysis of		5
1954 Apprentice Contest Establishes New Records:			Belt Wear, Maintenance Reduces	Feb	9
R. W. Schroeder		64			
Apprentice Contest Winners Announced		96	Bibliographies		
Construction Proceeding as Fund Reaches \$180,000.	Jan	49	Cupola Blast Humidity	Dec	4
Convention Caricatures	July	78	Magnesium Gating and Risering		12
1954 AFS Convention Hosts		96	Malleablizing Iron	Feb	5
1954 Convention News Story		42	Nitrogen in Cast Iron	Aug	4
1954 Convention News		65	Noise	June	5
Convention Paper Abstracts		78	Olivine Sand	June	8
1954 AFS Convention Plant Visits	May	99	pH Control of Clay	Dec	4
1954 Convention Program and Program			pH of Sand	Mar	5
Personalities	May	78	Silica Sand	Dec	5
1955 Convention Scheduled for Houston	Aug	38	Titanium Melting and Casting		11
Convention Technical Program Developing Rapidly	Dec	64	Titanium, Molds for	Mar	6
Dedicates Headquarters November 18	Nov	36	Blow-In Driers Used for Close Tolerances	Jan	4
Exhibitors for 1954 Show	May	76			
58th Foundry Congress & Show	May	69	Book Reviews		
Gold Medal Awards	May	74	Aluminum in Iron and Steel	Feb	9
Ground Broken for New Headquarters	Jan	49	Control of Quality in Melting and Casting	June	13
Headquarters Construction Accelerated	Apr	75	Das Giessereiwesen in Gemeinfasslicher		-
Headquarters Dedicated		51	Darstellung	Sept	7
Holds 11th Chapter Officers' Conference		74	Elements of Heat Treatment	Feb	9
Honorary Life Members		75	European Foundries and Productivity		13
Housing Applications Ready for Convention		55	Fehlerscheinungen an Guss-Stücken	Sept	7
Industry Continues Support of AFS Headquarters			Ferrous Analysis-Modern Practice and Theory	Feb	
Fund	Mar	73	Gases in Metals	June	13
1954 Ladies Convention Program		94	Materials and Processes	Sept	8
Largest Convention Offers Many Attractions		76	Mechanical Inspection	Feb	9
New Headquarters Takes Shape		153	Metallkunde	June	13
New Officers and Directors Nominated by AFS	many	100	Metallurgical Dictionary	Feb	10
Committee	Feb	52	Procedures in Experimental Metallurgy	Feb	9
Officers and Directors		93	Protective Atmospheres	June	10
		50	Temperature Measurement in Engineering		13
Officers and Directors		42	Borings and Turnings, Melting, in Cupola	Feb	9
Partial List of Exhibitors at Cleveland Convention	Nov	67	borings and Turnings, Meiting, in Cupola	May	12
Release Tentative 1955 Convention Program	June	90	Brass		
Staff Changes Announced		70	Gating for Production Economy	Apr	-
Stage Committee Week	Aug	10	Rapid Chemical Grading of		**
Walls Rising as AFS Building Fund Reaches	Pob	49	Yellow, Contaminants in (st)		10
\$220,000 Total	Feb	33	British Foundrymen Hold 51st Annual Conference		8

	Issue	Page		Issue	Page
Bronze, Aluminum, Grain Refinement of (talk)	Jan	5	Establishing Standards for As-Cast Surfaces:		
Bronze, Sub Capture Commemorated in	Oct	60		Apr	138
Brothers Create \$55,000 Pangborn Award and Scholarship Program	July	39	European Foundries and Productivity (br) Exhaust System, How to Design an	June	50
			Exhibits Preview	May	176
c			Experiences with Plastics in Patternmaking Practice: Wm. C. H. Dunn	June	82
Calcium Carbide Injection—A New Foundry Tool:					
J. M. Crockett and H. E. Henderson Carbon Dioxide Process for "Baking" Cores and	Apr	34			
Molds Career Carnival Held at Michigan State	Sept Feb	46 72	Facing, Graphite in (talk)	Jan Feb	5 96
Cast Metal Patterns in Shell Molds:			First Iron Works, Restore America's	Nov	64
C. R. Dutton		40 67	Fluidity Test Related to Phase Diagram Fluidity vs. Core Blows in Automotive Gray	Sept	56
Casting Processes, Evaluation of (facts)		83	Iron: Allen A. Evans	Apr	66
Casting Quality as Related to pH Value of Molding	Man	49	Flux in Non-Ferrous Melting (le)	Feb	20
Sands: Victor E. Zang and Gerald J. Grott Casting, The First:			L. W. Bennett and S. Davis	Feb	36
Harold E. White	Oct	98	Foundry Educational Foundation		
Cast Iron			Conference Program Announced	Feb	101
Chill Testing (facts)	Jan	65	Review 1953 Progress	May	150
Part I		60	Foundry Equipment Manufacturers' Association		-
Part II		43 74	Examines Business Trends: Herbert F. Scobie Moves to Washington	Dec Oct	68 88
Caterpillar Observes 50th Aniversary		89	Foundry Equipment, What's New in	July	32
Cellophane Covers Keep Dirt Out of Molds		69	Foundry Facts		
Cement-Sand Molding of Large Compressor Castings Chain Slings—Care and Safety Rules		40 104	Analysis of Casting Defects		67
Character Analysis of the Engineer		62	Calculating Cupola Charges		85
Chill Testing of Cast Iron (facts)	Jan	65	Carbon Steel Casting Standards		65 147
Coercive Force—Possible Measure of Degree of Malleablization: D. S. Eppelsheimer and			Copper-Base Alloys Classified	Feb	75
D. S. Gould	Nov	41	Chill Testing of Cast Iron	Jan	65
Coke Size, Screening, Handling Affect Cupola		90	Evaluation of Casting Processes	July	83
Melting: Woodrow W. Holden	Nov	38	Refractories	Sept	65
Aluminum in Steel: M. C. Steele	Jan	56	How to Prevent Copper-Base Alloy Casting Defects	Dec	61
Control of Quality in Melting and Casting (br) Conveying Core Sand:	June	138	Molding Sand Mixtures	Mar	47
John H. Kauffman	Oct	51	Names for Gates and Risers	Apr	63
Cooperative Safety Program Produces Outstanding			Sand Testing Equipment Standardization and Maintenance	Aug	67
Record	Jan	44	Foundry Flexibility Permits Versatile Plant		
Copper-Base Alloy	Dec	61	Operat in: Harold J. Wheelock		34
Casting Defects, How to Prevent (facts)	Feb	75	Harold Brown	Nov	52
Specifications (facts)	May	147	Foundry Is a Good Place to Work, Why the	Nov	93
Core		*	Foundry Layout		
Blows vs Fluidity in Gray Iron	Apr	66	Fork Lift Truck Systems Speed Wheel Production Gray Iron, Steel, Non-Ferrous Plant		36 36
Box, Metal (talk)	Dec	5 36	Heat Treating Department	May	102
Production in Dielectric Ovens	Mar	37	Malleable Core Room	Mar	38
Sand Conveying	Oct	51 60	Malleable Iron Foundry		33 56
Cost Questions Answered	Jan	92	Partial Mechanization	Jan	37
			Remelt Shell Casing Scrap	Nov	45
Cupola Blast Humidity Kept Constant	Dec	41	Small Casting Shop	Mar	36
Burn-Out, Curing	Nov	63	Steel Job Shop		61
Calculating Charges (facts) Effect of Coke Size, Screening, Handling in	June	85	Foundry Prepares Own Refractory for Lining and Patching Cupolas: Herbert F. Scobie	Feb	46
Melting	Nov	38	Foundry Terminology (quiz)	Feb	69
Eight Ways to Light	Sept	40	From Price per Pound to Price per Piece:		
Lining and Patching	Feb	46	J. L. Carter Fume Control in Electric Steel Foundry		59 46
Turnings: Wm. Y. Buchanan	May	127	•		-
Platform for Lining (idea)	Oct	46			
J. A. Dean	Nov	63	G		
			Gases in Metals (br)		138
D			Gates and Risers, Names for (facts)	Apr	63
			H. E. Elliott		
D Process for Precision Castings: H. W. Dietert	Aug	56	Part I	Apr	56
Defects, Control of (st)	Jan	69	Part II	May	113
Designing and Operating a Heat Treating Department: Richard W. Wilson	May	102	duction Economy: C. L. Mack		70
Development of a West Coast Steel Jobbing	May	102	German Society Meets	Feb	102
Foundry: Herbert F. Scobie		59	Gray Iron		
Dielectric Ovens Speed Core Production Dimensional Tolerances, Holding Close (idea)		37 96	Fluidity vs. Core Blows	Apr	66
Drawback Method of Producing Large Compressor	rsp.	-	Furnaces (st)		68 34
Castings: Charles W. Frame		40	Machinability (st)	Jan	68
Driers, Blow-In, Production of	Jan	40	Open Model Foundry		34
			Redesigning Brings Jobs	Mar	155 34
E			Sulphur Removal by Carbide Injection		34
Effect of Prebaking in Malleablizing Iron:			Gray Iron Founders' Society		
Floyd Brown	Feb	50	Annual Meeting Program		68
Eight Ways to Light a Cupola Bed: Donald E. Matthieu	Sept	40	Redesign Contest	May	155
Donald E. Matthieu	Sept		to Reduce	Apr	74
J. Elliott Janney	Jan	62	Gunite Foundries Celebrates Centennial	Aug	100

	Issue	Page		Issue	Page
н			Molding. Blow-Squeeze	May	144
Heat Flow in Metal Melts and Liquid-Solid			Molding Machines, Jolt-Squeeze (st)		74 52
Boundary	Mar	90	Molding Sand Mixtures (facts)	Mar	47
Heat Shield, Radiant (idea)	May	218	Molds, Cellophane Covers Keep Dirt Out of	Apr	69
W. S. Pellini	Apr	46		*	100
Heat Treating Department, Design and Operation Heat Treatment, Elements of (br) Holding Blast Humidity Constant:	Feb	102 96	National Castings Council Election		100
Joseph L. Brooks Hot Tearing of White Iron	Dec Mar	41 68	Release Annual Meeting Program for Studies Management Problems: Herbert F. Scobie	Oct Dec	74 66
How Far Should We Go in Foundry Sand Control?: Earl E. Woodliff	Feb	60	New Mechanized Foundry Casts Permanent Magnets Nitrogen in Cast Iron, Effects of		58
How Sand and Clay React to Soda Ash:			Part I Part II	July	60
George J. Barker How Slag Attacks Refractories:	Dec	44	Part II Noise, Introduction to	.June	43 52
D. Dixon How to Design an Exhaust System:	Oct	47	Non-Ferrous Founders' Society Election	June	100
W. W. Dodge		50	Now There's An Idea		
How We Look to Others	May	216	Holding Close Dimensional Tolerances Pattern Draw Platform for Lining Cupola	Mar	96 98 46
1			Radiant Heat Shield	May	218
Induction Melting with High and Low Frequency:	T	20	Solves Sand Elevator Maintenance Problem: Thomas F. Murphy	Nov	59
Frank T. Chesnut	June	70	Truck Substitutes for Skip Hoist Motor	Feb	99
Elects Inspection and Salvage of Magnesium Castings:	Apr	125	Uses for Old Crucibles	Jan	92
B. G. Harr	Aug	39	0		
Inspection, Mechanical (br)	Feb	96	Olivine-Silica Molding Sands:		
Anniversary Meeting		88	Wm. A. Snyder and G. S. Schaller	June	75
International Foundry Congress, Hold 1954 Introduction to Noise:	Dec	89	Open Model Gray Iron Foundry: Herbert F. Scobie	Oct	34
John O. Kraehenbuehl	June	52	A	Oc.	
Investment Precision Casting Without Expendable Patterns: A. Dunlop	June	64	,		
			Pangborn Award and Scholarship Program Created .		39
			Pangborn Celebrates 50th Anniversary Partial Mechanization Gives High Output in	Oct	62
Job Record Card (st)	Jan	69	Small Area	Jan	36
K			Pattern Draw (idea)	Mar June	98 82
Kaveny, Thomas Jr., Elected AFS Director	Jan	61	Patterns Cast in Shell Molds	Feb	40
Kennedy Scholarship		87	Penetration Decreased by Zircon Sand		78 56
			Permanent Mold Washes and Coatings	Sept	62
L			Permanent Molds (st)	Jan Sept	68 34
Lead-Base Alloys, Analysis of	Dec	50	pH Control of Sand	Dec	44
Lost Wax Process Engineered for Precision Castings: K. J. Yonker		55	pH of Molding Sand		49
			C. A. Sanders Pipe Foundry, Sand Control in	Mar Nov	94 54
m			Pipe Production, Special Methods for	Mar	63
Machinability and Microstructure:	T	70	Pit Molding Large Compressor Castings Plastics in Patternmaking		40 82
Hans J. Heine	Jan Jan	58 68	Polyelectrolyte (st)	Jan	68
Magnesium Alloys, Gating and Risering	May	113	Positive Approach to Two Problems (ed): Wm. W. Maloney	Jan	35
Magnesium Castings, Inspection and Salvage of Magnesium Gating and Risering		39 56	Pouring Temperature Effect on Steel Castings:		
Magnets, Foundry Casts		58	C. F. Cristopher Practical Maintenance Hints for Reduction of Belt	Apr	51
E. W. Greenlees	July	52	Wear: Fred Matheis Precision Casting, Shaw Process		98 64
Maintenance Reduces Belt Wear	Feb	98	Precision Castings, D Process for		56
Malleable Founders' Society		00	Precision Castings, Process Engineered for Pre-Mixing of Reconditioning Materials for Mold-	July	55
Annual Meeting Features Round Table Discussions Study Sales Methods:	Aug	93	ing Sand: Burdette Jones	May	123
Herbert F. Scobie	June	92	Pricing Castings	Sept	59
Malleable Iron			Marvin Glassenberg and Morris J. Berger	May	107
Effect of Prebaking on Malleablization		50 41	Productivity Ideas Increase British Output at Small Cost	Mar	42
Modern Production and Selling		32	Productivity Team Report, Dutch	May	216
Silicon in (le)		22 89			
Malleable Melting Control:			Q		
L. E. Emery Manufacturer Challenges Foundry (ed):	Oct	42	Quality Control in the Foundry:	Jan	50
Herbert F. Scobie	Feb	35	James M. Barabee		50
Market, Hit, By Direct Mail		52 84			
Mechanical Inspection (br) Mechanized Permanent Mold Casting:		96			
Herbert F. Scobie		56	Rammed Up and Poured: Bill Walkins	Cont	
Melting Control Malleable	June	42 70	Contentment Fall Guys	Sept Apr	95 125
Metal Sampling Machine, British Develop	Feb	102	Good Morning Boss	Nov	95
Metallkunde (br)		138 96	Just a HabitLife Sentence		102 149
Metallurgy, Experimental, Procedures in (br)	Feb	96	The Molder and The Devil	Mar	115
Methods for Special Pipe Production in Australia:	Mar	63	The Old Gang		113 232
G. J. Benson	Jan	58	Rapid Electrolytic Analysis of Tin and Antimony	May	232
Modern Malleable Iron Production and Selling:	Aug	32	in Lead-Base and Babbitt Alloys: Edward H. Huss	Dec	50
Herbert F. Scobie	Aug	62	Redesigning Brings Johs into Cray Iron Foundries	May	155

	Issue	Page		Issue	Page
Refractories, How Slag Attacks	Oct	47	Part I	July	60
Refractory, Preparing, for Cupolas		46	Part II	Aug	43
			Stack Molding	Jan	36
Regional Conferences			Stack Molding, Automatic	May	144
Announce East Coast		95	Statistical Quality Control for the Foundryman:		-
Announce Programs	Oct	72	Ross Martin, Jr	Sept	50
East Coast Program	Mar	78	Steel		
Foundry Economics Theme at East Coast	*****	140		Tom	56
Regional		149 79	Acid-Soluble Aluminum in		65
Heavy Attendance at Wisconsin		80	Medium Manganese, Vanadium and Molybdenum		00
Metals Casting Conference Features Engineered	Apr	80	in		45
Castings: Ashley B. Sinnett	Dec	72	Effect of Pouring Temperature on		51
Michigan Regional Features Gating, Risering,	Dec		Founders Stress Washington Situation at Annual	-apa	01
Molding: Vern Carlson	Dec	70	Fall Meeting: George K. Dreher		78
Southern Regional Program		70	Grinding Balls, Casting		59
Stage All-Canadian Foundry Conference:			Jobbing Foundry		59
Vern Carlson	Dec	76	Strength of White Irons in the Temperature Range		
Wisconsin Program	Jan	72		Mar	68
Remelt Shell Casing Scrap: E. D. Boyle		44	Sub Capture Commemorated in Bronze	Oct	60
Revised Spiral Test Relates Fluidity to Phase			Surface Standards for Castings	Apr	44
Diagram: W. A. Spindler, W. B. Pierce, and			System Sand Control in West Coast Pipe Foundry		
R. A. Flinn		56	Morris Gittleman	Nov	54
Risers and Gates, Names for (facts)	Apr	63			
			· ·		
S			Temperature Measurement in Engineering (br)	Feb	96
			Thermal Conductivity of Refractories, How to Calculate (facts)	Cont	08
Safety Contest, Snafu Foundry	Oct	78	Calculate (lacis)	Sept	65
Safety Program	Jan	44	Titanium		
Safety Violations	Dec	55	Alloy Castings, Producing	May	107
Sampling Procedure (st)	Mar	74	Castings, Shell Molds for		60
			Furnace for		107
Sand and Clay, Effect of Soda Ash on	Dec	44			
Control in Pipe Foundry		54	U		
Deformation as Control Test (talk)		33			
How Far Should We Go in Control?		60	Use of Dielectric Ovens Speeds Core Production	(:	
Mixtures for Molding (facts)		47	Greg Minogue	Mar	37
Molding, pH of		49			
Olivine-Silica Molding Mixtures	June	75	V		
pH Control of	Sept	34			
pH Value	Mar	94	Vanadium and Molybdenum in Medium Manganes		
Reconditioning		123	Cast Steel: Charles C. Spencer	July	45
Slurry System of Bonding	July	48			
Standard Sieve Sizes (st)		74	W		
What is Silica Sand		56			
Elevator Maintenance Problem Solved (idea)	Nov	59	Watch Those Batteries: K. A. Vaughan	May	217
Testing Equipment Standardization and			What Is Silica Sand?:		
Maintenance (facts)		67	Clyde A. Sanders and O. Jay Myers		56
Shaw Process of Investment Casting		64	What's New in Foundry Equipment		32
Shell Molding, Developments in		138	Wheel Production Speeded, Railroad	Feb	36
Shell Molds, Cast Patterns in	Feb Mar	40 60	White Iron, Hot Tearing of	Mar	68
Shell Molds for Titanium Castings: R. M. Lang Shell Molds, Heat Transfer of Metals in	Apr	46	Work Simplification Can Be Done by Anybody	Nov	48
Shells, Urea Resin (talk)		5	Work Simplification Saves \$300,000 in Six Years:	-	
Silicon, Rapid Control Method for (le)		22	W. S. Williams	reb	54
Skip Hoist Operated by Truck (idea)		99			
Slag, How, Attacks Refractories		47	X		
Slurry System Improves Sand, Reduces Binder	500	**			
Consumption	July	48	X-Ray, 12 Reasons for Using	Aug	84
Smog Control in the Foundry:					
Harry Dok	Dec	46	Z		
Some Effects of Nitrogen in Cast Iron:					
J. W. Dawson, L. W. Smith, and B. B. Bach	1		Zircon Sand Reduces Penetration	Mar	78

INDEX TO AUTHORS

A		G	
Issue	Page	Issue	Pag
Annieh, M. E.: Anybody Can Simplify Work Nov	48	Gittleman, Morris: System Sand Control in West	
		Coast Pipe Foundry Nov Glassenberg, Marvin, and Morris J. Berger: Producing Titanium Alloy Castings May	10
Bach, B. B., J. W. Dawson, and L. W. Smith: Some Effects of Nitrogen in Cast Iron		Gould, D. S., and D. S. Eppelsheimer: Coercive Force—Possible Measure of Degree of	-
Part I July Part II Aug	60 43	Malleablization Nov	4
Barabee, James M.: Quality Control in the Foundry . Jan Barker, George J.: How Sand and Clay React to	50	Greenlees, E. W.: Maintenance of Molding Machines July Grott, Gerald J., and Victor E. Zang: Casting	5
Soda Ash Dec Bennett, L. W., and S. Davis: Fork Lift Truck	44	Quality as Related to pH Value of Molding Sands Mar	41
Systems Speed Wheel Production Feb Benson, G. J.: Methods for Special Pipe Production	36	Li Li	
in Australia Mar	63	Hown D. C.: Inspection and Salvage of Magnesium	
Berger, Morris J., and Marvin Glassenberg: Producing Titanium Alloy Castings	107	Harr, B. G.: Inspection and Salvage of Magnesium Castings	31
Bishop, H. F., R. E. Morey, and W. S. Pellini: Heat Transfer Characteristics of Metals Cast in Shell Molds	46	Heine, Hans J.: Machinability and Microstructure Jan Heine, R. W., and J. P. Frenck: Strength of White Irons in the Temperature Range of Hot Tearing . Mar	5
Boyle, E. D.: Remelt Shell Casing Scrap Nov	44	Henderson, H. E., and J. M. Crockett: Calcium	
Brooks, Joseph L.: Holding Blast Humidity Constant Dec	41	Carbide Injection—A New Foundry Tool Apr Hockman, C. W.: Automation in Core Making Dec	3
Brown, Floyd: Effect of Prebaking in Mal- leablizing Iron Feb	50	Holden, Woodrow W.: How Coke Size, Screening, Handling Affect Cupola Melting Nov	2
Brown, Harold: Foundry Hits Selective Market		Huss, Edward H.: Rapid Electrolytic Analysis of	
by Direct Mail	52	Tin and Antimony in Lead-Base and Babbitt Alloys Dec	50
Borings and Steel Turnings May	127	1	
C		Janney, J. Elliott: Engineer in Profile-a Character	
Carlson, Vern: Michigan Regional Features Gating, Risering, Molding Dec	70	Analysis Jan Jones, Burdette: Pre-Mixing of Reconditioning	63
Carlson, Vern: Stage All-Canadian Foundry Conference Dec	76	Materials for Molding Sand May	123
Carter, J. L.: From Price per Pound to Price per Piece Sept	59	K	
Chesnut, Frank T.: Induction Melting with High		Kauffman, John H.: Conveying Core Sand Oct Kraehenbuehl, John O.: Introduction to Noise June	51
and Low Frequency June Cristopher, C. F.: Pouring Temperature Effect	70	t	
on Steel Castings	51	Lang, R. M.: Shell Molds for Titanium Castings Mar	61
Carbide Injection—A New Foundry Tool Apr	34	Loder, Roy A.: Establishing Standards for As-Cast Surfaces Apr	44
D			
Davis, S., and L. W. Bennett: Fork Lift Truck Systems Speed Wheel Production Feb	36	Mack, C. L.: Gating Yellow Brass Castings for	
Dawson, J. W., L. W. Smith, and B. B. Bach: Some Effects of Nitrogen in Cast Iron		Greater Production Economy	7
Part II July Part II Aug	60 43	Problems (ed) Jan	3
Dean, J. A.: Curing Cupola Burn-Out Nov	63	Martin, Ross: Statistical Quality Control for the Foundryman Sept	5
Dietert, H. W.: D Process for Precision Castings Aug Dixon, D.: How Slag Attacks Refractories Oct	56 47	Matheis, Fred: Practical Maintenance Hints for	
Dodge, W. W.: How to Design an Exhaust System Aug	50	Reduction of Belt Wear Feb Matthieu, Donald E.: Eight Ways to Light a	90
Dok, Harry: Smog Control in the Foundry Dec Dreher, George K.: Steel Founders Stress Wash-	46	Cupola Bed Sept	46
ington Situation at Annual Fall Meeting Dec	78	Minogue, Greg: Automatic Stack Molding May Minogue, Greg: Use of Dielectric Ovens Speeds	14
Dunlop, A.: Investment Precision Casting Without Expendable Patterns	64	Core Production	. 3.
Patternmaking Practice June	82	Heat Transfer Characteristics of Metals Cast in Shell Molds	46
Dutton, C. R.: Cast Metal Patterns in Shell Molds Feb	40	Murphy, Thomas F.: Solves Sand Elevator Maintenance Problem Nov	59
E		Myers, O. Jay, and Clyde A. Sanders: What Is Silica Sand? Dec	54
Elliott, H. E.: Gating and Risering of Magnesium Alloys		P	
Part I	56 113	Pellini, W. S., R. E. Morey, and H. F. Bishop:	
Emery, L. E.: Malleable Melting Control Oct	42	Heat Transfer Characteristics of Metals Cast in Shell Molds	41
Eppelsheimer, D. S., and D. S. Gould: Coercive Force—Possible Measure of Degree of		Pierce, W. B., W. A. Spindler, and R. A. Flinn: Revised Spiral Test Relates Fluidity to Phase	•
Malleablization	41	Diagram Sept	56
Automotive Gray Iron Apr	66	S	
F		Sanders, C. A.: pH Value—A New Foundry Term Mar Sanders, Clyde A., and O. Jay Myers: What Is	9
Flinn, R. A., W. A. Spindler, and W. B. Pierce:		Silica Sand? Dec	56
Revised Spiral Test Relates Fluidity to Phase Diagram. Sept	56	Schaller, G. S., and Wm. A. Snyder: Olivine- Silica Molding Sands June	73
Frame, Charles W.: Drawback Method of Producing Large Compressor Castings	40	Schroeder, R. W.: 1954 Aprentice Contest Establishes New Records Oct	64
Frenck, J. P., and R. W. Heine: Stength of White	00	Scoble, Herbert F.: Development of a West Coast	_

	Issue	Page	V		
Scoble, Herbert F.: FEMA Examines Business				Issue	Page
Trends	Dec	68			
Scobie, Herbert F.: Foundry Prepares Own Re-			Valyi, E. I.: After Three Years: Developments		100
fractory for Lining and Patching Cupolas	Feb	46	in Shell Molding	May	138
Scobie, Herbert F.: Malleable Founders Study	_		Vaughan, K. A.: Watch Those Batteries	May	217
Sales Methods	June	92			
Scobie, Herbert F.: Manufacturer Challenges			W		
Foundry (ed)	Feb	35	Walkins, Bill: Contentment	Sept	95
Scobie, Herbert F.: Mechanized Permanent Mold			Walkins, Bill: Fall Guys		125
Casting	Oct	56	Walkins, Bill: Good Morning Boss		95
Scobie, Herbert F.: Open Model Gray Iron			Walkins, Bill: Just a Habit		102
Foundry	Oct	34	Walkins, Bill: Life Sentence		149
Scobie, Herbert F.: Modern Malleable Iron			Walkins, Bill: The Molder and The Devil		115
Production and Selling	Aug	32	Walkins, Bill: The Old Gang		113
Scobie, Herbert F.: NFA Studies Management			Walkins, Bill: Ticket to Booby Hatch		232
Problems	Dec	. 66	Wheelock, Harold J.: Foundry Flexibility	may	200
Scobie, Herbert F.: Round Table Discussions				Mon	34
Feature MFS Meeting	Aug	93	Permits Versatile Plant Operation		98
Sinnett, Ashley B.: Announce AFS Educational				Oct	30
Program	Sept	68	Williams, W. S.: Work Simplification Saves	Wah	54
Sinnett, Ashley B.: Metals Casting Conference			\$300,000 in Six Years	Feb	34
Features Engineered Castings	Dec	72	Wilson, Richard W.: Designing and Operating a	35.00	102
Smith, L. W., J. W. Dawson, and B. B. Bach:			Heat Treating Department	May	102
Some Effects of Nitrogen in Cast Iron			Woodliff, Earl E.: How Far Should We Go in	Wah	60
Part I	July	60	Sand Control?	Feb	60
Part II	Aug	43			
Snyder, Wm. A., and G. S. Schaller: Olivine-			T .		
Silica Molding Sands	June	75	Yonker, K. J.: Lost Wax Process Engineered for		
Spencer, Charles C.: Vanadium and Molybdenum	1			July	55
in Medium Manganese Cast Steel	July	45	Frecision Castings	July	90
Spindler, W. A., W. B. Pierce, and R. A. Flint	1:				
Revised Spiral Test Relates Fluidity to Phase			The second secon		
Diagram	Sept	56	Zang, Victor E., and Gerald J. Grott: Casting		
Steele, M. C.: Colorimetric Determination of			Quality as Related to pH Value of Molding		
Acid-Soluble Aluminum Steel	Jan	56	Sands	Mar	49

.